



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/533,772

06/22/2006

David Flattin

0579-1088

8199

466

7590

09/29/2009

YOUNG & THOMPSON

209 Madison Street

Suite 500

ALEXANDRIA, VA 22314

EXAMINER

RONI, SYED A

ART UNIT

PAPER NUMBER

2194

MAIL DATE

DELIVERY MODE

09/29/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/533,772	Applicant(s) FLATTIN ET AL.	
	Examiner SYED RONI	Art Unit 2194	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 - 18 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1 - 18 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 May 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>20050504</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 – 18 are rejected under 35 U.S.C. 102 (e) as being anticipated by
Lagosanto et al. (US 6,807,561 B2).

Regarding **claim 1**, (original) **Microcircuit card** [i.e., smart card (col. 1, line 22), (column 2, line 7)] including at least **one data object** [i.e., application programs, e.g., applets (col. 1, lines 25 - 26)], [i.e., applications on the device (col. 1, lines 30 - 34)], characterized in that it includes:

a **register** (20) including a **logical identifier** (myCalculator) **of** said **object** [i.e., list of methods (column 2, line 32)], [i.e., the functions, or methods,are published (col. 1, lines 40 - 45)] and at least **one first reference** (0060H) **of** said **object local** to said **card** [i.e., application protocol data unit (APDU) (col. 1, lines 58 - 60)], [i.e., transform APDU messages.....into the appropriate method calls (col. 2, lines 17 - 19) *Note; APUD i.e., hexadecimal codes i.e., reference local to the card are being transformed to appropriate method calls of a program*], [i.e., convert the method.....APDU message

Art Unit: 2194

(col. 2, lines 14 - 15)]; and **means** (CardManager) adapted, **on reception** of a **first message** (lookup__APDU) including said **logical identifier** (myCalculator), to **communicate** at least **one second local reference** (K(0060H)= 0460H) **obtained** from said at least **one first local reference** (0060H) [i.e., skeleton program (col. 2, lines 13 - 19)].

Regarding **claim 2**, (original) Microcircuit card according to Claim 1, characterized in that it further includes **means** (bind) for **publication of said logical identifier** (myCalculator) and of said at least **one first local reference** [i.e., published methods (col. 1, line 50), (col. 1, lines 41 - 46), (col. 2, line 37)] (0060H) in said register (20) of the card.

Regarding **claim 3**, (currently amended) Microcircuit card according to claim 2 ~~4 or claim 2~~, wherein said **data object** is a **Java Card type object** [i.e., Java Card (col. 2, line 27)] belonging to a **Java Card applet** [i.e., application programs, e.g., applets...Java programming language (col. 1, lines 25 - 26)] (CalculatorApplet), the card being characterized in that said second local reference (0460H) of said data object **conforms** to the **Java Card standard** [i.e., Java Card (col. 2, line 27)], [i.e., skeleton 22 (col. 2, lines 16 - 19), (col. 5, lines 57 - 60), (see figure 2)].

Regarding **claim 4**, (currently amended) Microcircuit card according to ~~claims 2 and claim 3~~, characterized in that said **publication is performed** at the **initialization** of said **applet** (CalculatorApplet) [i.e., the card application, which consists of the implementation...and client programs are developed...through the card service (col. 2, lines 38 - 42)].

Regarding **claim 5**, (currently amended) Microcircuit card according to claim 3 ~~or claim 4~~, characterized in that the **communication means** (card manager) [i.e., skeleton program (col. 2, lines 13 - 19)] are adapted to **communicate** an **identifier** (A000000000H) **of** said **applet** [i.e., back into the appropriate method calls (col. 2, lines 13 - 20)] **on reception** of said **first message** (lookup_APDU) [i.e., received APDU messages (col. 2, lines 16 - 19)].

Regarding **claim 6**, (currently amended) Microcircuit card according to claim 1, characterized in that said **data object** is a **computer program** (myCalculator) [i.e., application program (col. 1, line 25)], a variable (date) or a **computer file** (CARD •HOLDER) [i.e., applets (col. 1, line 25)].

Regarding **claim 7**, (currently amended) Microcircuit card according to claim 1, characterized in that, **on reception of a second message** (get_bound_objects_APDU) [i.e., calls are then presented (col. 2, lines 16 - 20)], [i.e., upon....client (col. 5, line 62 - 63), (see figure 2)], said **communication** means **communicate all the logical identifiers** [i.e., returns a value (col. 5, lines 62 - 63), (see figure 2)] contained **in** said **register** (20) [i.e., invoking these methods (col. 1, lines 41 - 45)].

Regarding **claim 8**, (currently amended) Microcircuit card according to claim 1, characterized in that said **second local reference** (A000000000H) is said **first local reference** (A000000000H) [i.e., skeleton program (col. 2, lines 13 - 19)].

Regarding **claim 9**, (currently amended) Microcircuit card according to claim 1, characterized in that said **second local reference** (0460H) is **temporary** and is

Art Unit: 2194

obtained by encrypting the first local reference (0060H) using an encryption key [i.e., decrypt the message (col. 7, line 32)] (KEY) of the microcircuit card.

Regarding **claim 10**, (original) **Computer (terminal) equipment of terminal type** [i.e., terminal 16 (col. 1, lines 27 - 33), (see figure 2)] including means (CPU, ROM, RAM) adapted to **implement a software application (DesktopApp)** [i.e., client program 18 (col. 1, lines 27 - 33), (col. 5, line 47), (see figure 2)] **including at least one first instruction** [i.e., issues a call (col. 5, lines 47 - 48)] for **using** [i.e., employ (col. 1, lines 27 - 33)] at least **one data object** in a **microcircuit card** [i.e., device application 12 (col. 1, lines 25 - 26), (col. 5, lines 48 - 49), (see figure 2)], [i.e., services provided.....on the device (col. 1, lines 27 - 33)] [i.e., client program that communicates with the application stored on the device (col. 1, lines 24 - 28)], characterized in that said at least **one first instruction** uses a **logical identifier (myCalculator)** of said **object** [i.e., method.....device application 12 (col. 5, lines 47 - 49), (see figure 3)] and the computer equipment includes:

means (CardNaming.lookup) for obtaining [i.e., client proxy 20 (col. 2, lines 14 - 16), (col. 5, lines 50 - 52), (see figure 2)], from said **logical identifier (myCalculator)**, at least **one second local reference (K(0060H) = 0460H)** [i.e., converts the method.....APDU message (col. 2, lines 14 - 16), (col. 5, lines 53 - 54), (see figure 2)] obtained **by the microcircuit card** from a **first reference (0060H)** of said data object **local** to said **card** [i.e., transmitted to the card (col. 5, line 54)],

means (proxy, invoke) for translating [i.e., client proxy 20 (col. 2, lines 14 - 16), (col. 5, lines 50 - 52), (see figure 2)] said at least **one first instruction into** at least **one**

Art Unit: 2194

second instruction [i.e., converts the method.....APDU message (col. 2, lines 14 - 16), (col. 5, lines 53 - 54), (see figure 2)] that can be **executed** on said **card** [i.e., ISO/IEC 7816-4 standard (col. 1, lines 55 - 60)], said at least **one second instruction using** said at least **one second local reference** (0460H) [*Note; method calls of a program are being transformed to appropriate APUD i.e., hexadecimal codes i.e., reference local to the card*], and **communication means** adapted to **communicate** said at least **one second instruction** to said **card** for said **use** [i.e., runtime engine 14 (col. 5, lines 54 - 57), (see figure 3)].

Regarding **claim 11**, (original) Computer equipment according to claim 10, wherein said **data object** is a **Java Card type object** [i.e., Java Card (col. 2, line 27)] belonging to a **Java Card applet** (CalculatorApplet) of the **microcircuit card** [i.e., application programs, e.g., applets...Java programming language (col. 1, lines 25 - 26)], which computer equipment is characterized in that the **obtaining means** (CardNaming.lookup) are adapted to **obtain a second reference** (0460H) **conforming** to the **Java Card standard** obtained by said card from a **first reference** (0060H) of said **data object** [i.e., Java Card (col. 2, line 27)], [i.e., skeleton 22 (col. 2, lines 16 - 19), (col. 5, lines 57 - 60), (see figure 2)].

Regarding **claim 12**, (original) Computer equipment according to claim 10, characterized in that the obtaining means (CardNamingAPI lookup) are adapted to obtain an **identifier** (A000000000H) **of** said **applet** (CalculatorApplet) [i.e., application programs, e.g., applets (col. 1, lines 25 - 26)], [i.e., applications on the device (col. 1, lines 30 - 34)].

Regarding **claim 13**, (currently amended) Computer equipment according to claim 10, characterized in that said **data object** is a **computer program** (myCalculator) [i.e., application program (col. 1, line 25)], a variable (date) or a **computer file** (CARD HOLDER) [i.e., applets (col. 1, line 25)].

Regarding **claim 14**, (currently amended) Computer equipment according to claim 10, characterized in that it further includes **means** (BindingService) for **publication, in a register** (standard RMI Registry) of said **computer system terminal** [i.e., terminal 16 (col. 1, lines 27 - 33), (see figure 2)], [i.e., published methods (col. 1, line 50), (col. 1, lines 41 - 46), (col. 2, line 37)], a **buffer object** (remoteCalculator) including an **interface identical** to that of the **data object of the card** [i.e., application programs, e.g., applets (col. 1, lines 25 - 26)], [i.e., applications on the device (col. 1, lines 30 - 34)], that **buffer object** being adapted to **translate** (invokeMethod) an **instruction executing** on a **third-party system** and **using** said **logical identifier** into at least **one second instruction** that can be **executed** on said **card** [i.e., converts the method.....APDU message (col. 2, lines 14 - 16), (col. 5, lines 53 - 54), (see figure 2)] and uses said second local reference (0460H).

Regarding **claim 15**, (original) Computer equipment according to claim 14, characterized in that the **publication means** (BindingService) are adapted to **obtain** and to **publish** in the register (standard RMI Registry) of said computer system terminal [i.e., terminal 16 (col. 1, lines 27 - 33), (see figure 2)] all the **buffer objects of the data objects** published by said **card** [i.e., published methods (col. 1, line 50), (col. 1, lines 41 - 46), (col. 2, line 37)].

Art Unit: 2194

Regarding **claim 16**, (currently amended) Computer equipment according to claim 14, characterized in that said **data object** is a **Java Card type object** [i.e., Java Card (col. 2, line 27)] and said register (Java2 SE RMI Registry) **conforms** to the "**Java standard RMI registry**" **standard** [i.e., remote method invocation (RMI) (col. 1, line 40)].

Regarding **claim 17**, (new) Computer equipment according to claim 15, characterized in that said **data object** is a **Java Card type object** [i.e., Java Card (col. 2, line 27)] and said register (Java2 SE RMI Registry) **conforms** to the "**Java standard RMI registry**" **standard** [i.e., remote method invocation (RMI) (col. 1, line 40)].

Regarding **claim 18**, (new) Microcircuit card according to claim 1, wherein said **data object** is a **Java Card type object** [i.e., Java Card (col. 2, line 27)] belonging to a **Java Card applet** (CalculatorApplet) [i.e., application programs, e.g., applets...Java programming language (col. 1, lines 25 - 26)], the **card** being characterized in that said **second local reference** (0460H) of said data object **conforms** to the **Java Card standard** [i.e., Java Card (col. 2, line 27)].

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SYED RONI whose telephone number is (571)270-7806. The examiner can normally be reached on M - F (8:30 am - 5:00 pm).

Art Unit: 2194

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hyung Sub Sough (Sam) can be reached on (571) 272 - 6799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SYED RONI/
Examiner, Art Unit 2194

/Hyung S. Sough/
Supervisory Patent Examiner, Art Unit 2194
09/28/09